

## 1SV11F0116T/D

### Technical data

Company name  
Contact  
Phone number  
e-mail address

#### Operating data

|                           |                  |                           |                             |
|---------------------------|------------------|---------------------------|-----------------------------|
| Pump type                 | Single head pump | Fluid                     | Water                       |
| Available system NPSH     | ft 0             | Operating temperature t A | °F 39.2                     |
| Nominal flow              | US g.p.m. 0      | pH-value at t A           | 7                           |
| Nominal head              | ft 0             | Density at t A            | lb/ft <sup>3</sup> 62.4     |
| Static head               | ft 0             | Kin. viscosity at t A     | ft <sup>2</sup> /s 1.689E-5 |
| Inlet pressure            | psi 0            | Vapor pressure at t A     | psi 14.5                    |
| Environmental temperature | °F 68            | Solids                    | 0                           |
|                           |                  | Altitude                  | ft 0                        |

#### Pump data

|                       |                     |                  |                     |
|-----------------------|---------------------|------------------|---------------------|
| Make                  | Lowara              | Nominal          | US g.p.m. ( )       |
| Speed                 | rpm 3500            | Flow             | Max- US g.p.m. 12.3 |
| Number of stages      | 11                  |                  | Min- US g.p.m.      |
| Max. casing pressure  | psi                 | Nominal          | ft                  |
| Max. working pressure | psi 136.9           | Head             | at Qmax ft 178.8    |
| Head H(Q=0)           | ft 320              |                  | at Qmin ft 315.6    |
| Weight                | lb 52               | Shaft power      | hp ( )              |
|                       | Max. inch 2 7/8     | Max. shaft power | hp 1.2              |
| Impeller R            | designed inch 2 7/8 | Efficiency       | %                   |
|                       | Min. inch 2 7/8     | NPSH 3%          | ft                  |

#### Pump Materials

|                          |                            |
|--------------------------|----------------------------|
| Pump body                | Stainless steel / AISI 304 |
| Impeller                 | Stainless steel / AISI 304 |
| Diffuser                 | Stainless steel / AISI 304 |
| Outer sleeve             | Stainless steel / AISI 304 |
| Shaft                    | Stainless steel / AISI 304 |
| Adapter                  | Cast iron                  |
| Base                     | Aluminium                  |
| Coupling                 | Aluminium                  |
| SEAL HOUSING             | Stainless steel / AISI 304 |
| Coupling protection      | Stainless steel / AISI 304 |
| Shaft sleeve and bushing | Tungsten carbide           |
| Fill / drain plugs       | Stainless steel / AISI 304 |
| Tie rods                 | Galvanized steel           |
| Wear ring                | Technopolymer PPS          |

#### Shaft Seal

|                               |                          |
|-------------------------------|--------------------------|
| e-SV Mechanical seal          | Roten                    |
| e-SV - Uniten (-30 / +120 °C) |                          |
| 1 - Rotating part             | Silicon Carbide          |
| 2 - Stationary part           | Resin impregnated carbon |
| 3 - Elastomers                | EPDM                     |
| 4 - Springs                   | AISI 316                 |
| 5 - Other components          | AISI 316                 |

#### Motor data

|                  |                      |                      |       |            |          |                  |          |
|------------------|----------------------|----------------------|-------|------------|----------|------------------|----------|
| Manufacturer     | Lowara               | Electric voltage     | 220 V | Speed      | 3490 rpm | Insulation class | F        |
| Specific design  | IE3 3ph Flange Motor |                      |       | Frame size | 80       | Colour           | RAL 5010 |
| Type             | SM 80 B14 1,1 kW     |                      |       |            |          |                  |          |
| Rated power      | 1.4751 hp            | Degree of protection | IP55  |            |          |                  |          |
| Electric current | 4.19 A               |                      |       |            |          |                  |          |

#### Remarks:

# 1SV11F0116T/D

## Performance curve

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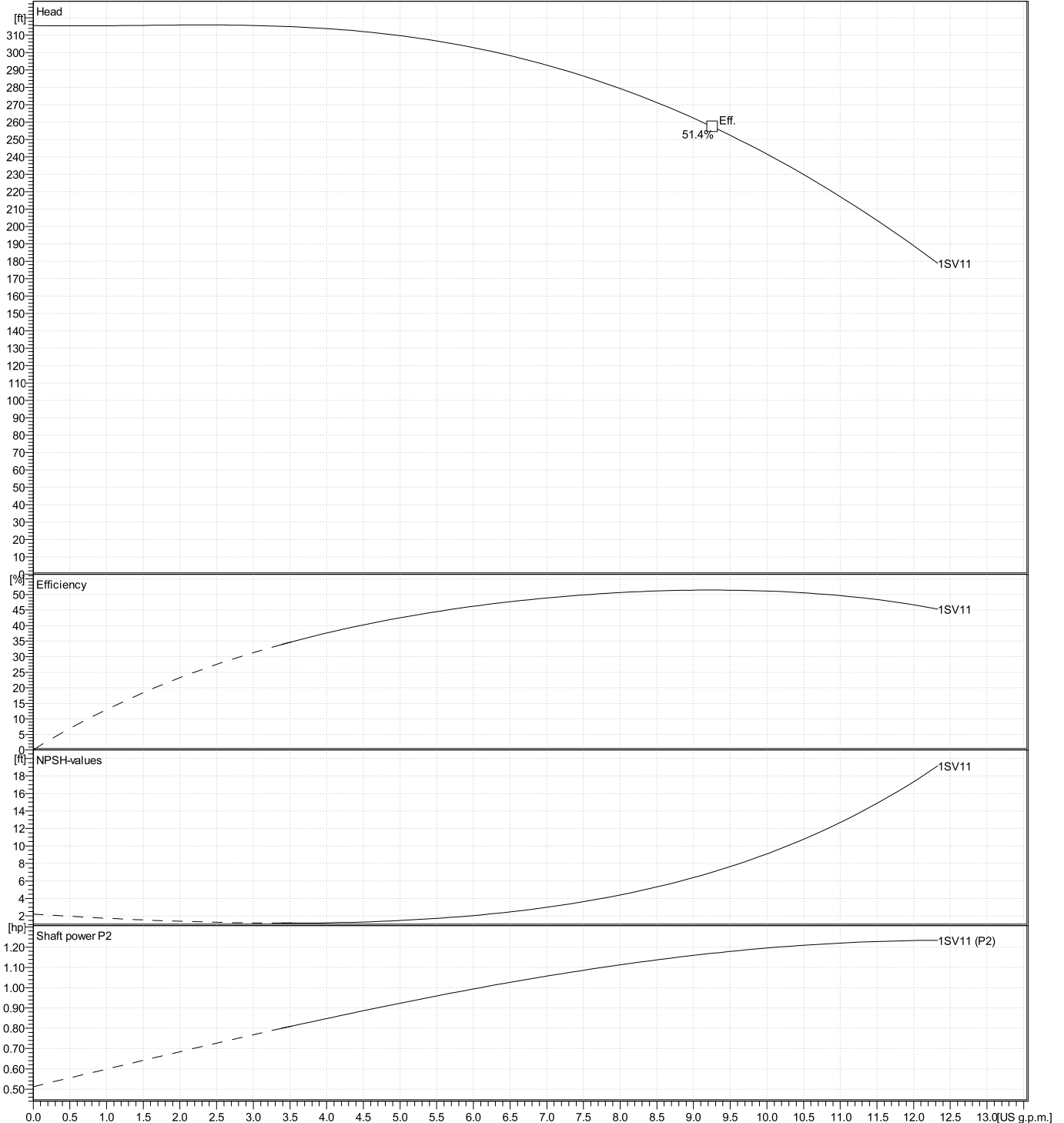
### Hydraulic data

| Operating Data Specification |             | Hydraulic data (duty point) |     | Impeller design |            |
|------------------------------|-------------|-----------------------------|-----|-----------------|------------|
| Flow                         | 0 US g.p.m. | Flow                        |     | Impeller R      | 2 7/8 inch |
| Head                         | 0 ft        | Head                        |     | Frequency       | 60 Hz      |
| Static head                  | 0 ft        | MEI                         | --- | Speed           | 3500 rpm   |

**Power datas referred to:**

Water [100%] ; 39.2°F; 62.4lb/ft<sup>3</sup>; 1.69E-5ft<sup>2</sup>/s

Performance according to ISO 9906:2012 – Grade 3B

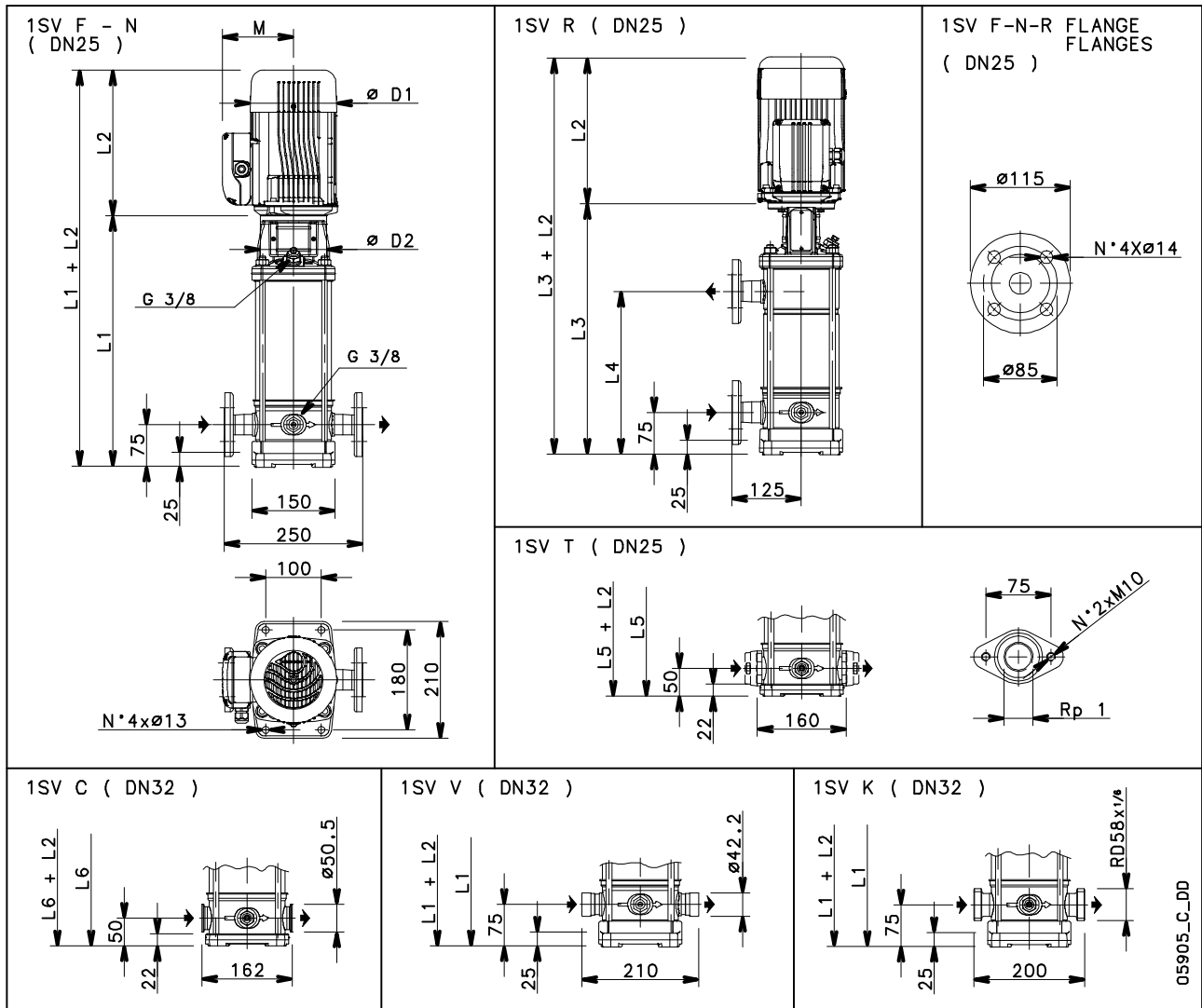


**1SV11F0116T/D**

**Dimensions**

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**Drawing**



**Dimensions inch**

|    |                                 |   |                                |  |  |        |
|----|---------------------------------|---|--------------------------------|--|--|--------|
| D1 | 6 <sup>1</sup> / <sub>8</sub>   | M | 5 <sup>1</sup> / <sub>16</sub> |  |  | Weight |
| D2 | 4 <sup>3</sup> / <sub>4</sub>   |   |                                |  |  | 50 lb  |
| L1 | 17 <sup>9</sup> / <sub>8</sub>  |   |                                |  |  |        |
| L2 | 10 <sup>9</sup> / <sub>8</sub>  |   |                                |  |  |        |
| L3 | 17 <sup>9</sup> / <sub>8</sub>  |   |                                |  |  |        |
| L4 | 11 <sup>5</sup> / <sub>16</sub> |   |                                |  |  |        |
| L5 | 16 <sup>5</sup> / <sub>8</sub>  |   |                                |  |  |        |